

NPDGamma 3He Oven and Controller

Controller

- **Construction is finished**
- **Tested to 150 °C - maintains temperature to ± 0.5 °C**
- **Maximum temperature = 155 °C, limited by air flow**

® **Plans are being made to increase the airflow above 6 cfm to increase the maximum oven temperature**

Oven

- **Construction is finished**
- **10 length along beam**
- **4 x 0.7mm silicon wafers in beam**
- **98% neutron transmission (without 3He cell)**
- **Tested to 155 °C**
- **Some warping of oven occurred**
- **No detectable cell movement for short test**

® **Some modifications to the oven will be made to prevent warping**

® **Testing for longer times at higher temperatures will be performed to check for cell movement**













